

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in this application.

**Listing of Claims:**

Claim 1 (Currently Amended): A method Method for determining the angles of oblique and arched distortion of a textile fabric ~~or similar~~, with the use of at least one optical detector with axes of symmetry orientated with respect to the fabric, the method comprising characterised by the following steps:

illuminating impulse illumination of an area of the fabric ~~or similar~~ with a light source;

acquiring acquisition, in digital form, of a real image of the an area of the fabric ~~or similar~~, irrespectively of the orientation of the said optical detector with respect regard to the fabric, wherein the with illumination of said fabric is illuminated for just the time necessary to acquire the image;

rotating rotation of the image and compensating compensation for the orientation of the axes of symmetry of the optical detector with respect regard to the fabric;

applying application to the said image of algorithms useful for increasing the reliability of the results of subsequent processing;

applying a application of the two-dimensional Fourier transformation to the recorded image;

calculating an calculation of the angle of local distortion by analyzing analysis of the two-dimensional spectrum of the Fourier transformation; and

calculating calculation of the angles of oblique and arched distortion, starting from the angle angles of local distortion.

Claim 2 (Currently Amended): The method Method according to claim 1,  
wherein where the value of the local angle is generated only on a the request from of a central supervision and control system.

Claim 3 (Currently Amended): The method Method according to claim 1,  
wherein in which the illuminating illumination of the fabric or similar is carried out with single impulses and the acquiring acquisition of the images is synchronized with the said impulses.

Claim 4 (Currently Amended): The method Method according to claim 1,  
wherein in which the fabric or similar is fixed.

Claim 5 (Currently Amended): The method Method according to claim 1,  
wherein in which the fabric or similar is moving in movement.

Claim 6 (Currently Amended): A sensor Sensor for determining the angles of oblique and arched distortion of a fabric or similar according to the method of claim 1, the sensor characterised by the fact of including within a single functional unit:  
focusing optics of the area to be examined;  
an impulse illuminator control circuit for controlling commanding the duration of the illuminating illumination; and  
an integrated acquisition, processing and communication unit.

Claim 7 (Currently Amended): The sensor Sensor according to claim 6,  
wherein in which the integrated acquisition, processing and communication unit includes a static matrix photosensitive device.

Claim 8 (Currently Amended): A faller Faller device intended for treatment of the textile fabric or similar, the faller device comprising by means of actuators for controlling correction of the distortion angles, characterized by at least one sensor

according to claim 6 for detecting the local distortions deformations, and by a supervision and control system for acquiring and processing the values of the said local distortions deformations, and for controlling the actuators of the faller machine.

Claim 9 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 1 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 10 (Currently Amended): The method Method according to claim 2, wherein in which the illuminating illumination of the fabric or similar is carried out with single impulses and the acquiring acquisition of the images is synchronized with the said impulses.

Claim 11 (Currently Amended): The method Method according to claim 2, wherein in which the fabric or similar is moving movement.

Claim 12 (Currently Amended): The method Method according to claim 3, wherein in which the fabric or similar is moving movement.

Claim 13 (Currently Amended): A faller Faller device intended for treatment of the textile fabric or similar, the faller device comprising by means of actuators for controlling correction of the distortion angles, characterized by at least one sensor according to claim 7 for detecting the local distortions, deformations and by a supervision and control system for acquiring and processing the values of the said local distortions deformations, and for controlling the actuators of the faller machine.

Claim 14 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the

method of and sensor in claim 2 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 15 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 3 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 16 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 4 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 17 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 5 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 18 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 6 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 19 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the method of and sensor in claim 7 in machines for controlling and certifying the defects in textile fabrics or similar.

Claim 20 (Currently Amended): A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement The use of the

**BIAZZI**

**Serial No.: 09/912,760**

method of and sensor in claim 8 in ~~machines for controlling and certifying the defects in textile fabrics or similar.~~